

Appendix A: Index of Near-Term R&D Funding and Staffing Plans

| | | Funding | | | FTE | | |
|---|---------|---------|-----------|------------|------------|-----------|------|
| Program Title | FY 1997 | FY 1998 | FY 1999 | FY 1997 | FY 1998 | FY 1999 | Page |
| | | | | | | | |
| Federal Highway Administration (FHWA) | | | | | | | |
| Highway Safety | 8,650 | 9,000 | NA | 22.80 | 22.80 | NA | 87 |
| Pavement Research Program | 13,731 | 11,150 | NA | 24.00 | 24.00 | NA | 89 |
| Structures Research Program | 14,362 | 15,256 | NA | 15.00 | 15.00 | NA | 91 |
| Environmental Research | 5,443 | 5,566 | NA | 5.00 | 5.00 | NA | 92 |
| Right-of-Way Research Program | 322 | 365 | NA | 0.25 | 0.25 | NA | 93 |
| Policy Research | 5,328 | 8,000 | NA | 6.00 | 8.00 | NA | 172 |
| Highway Planning Research | 5,889 | 16,025 | NA | 4.00 | 6.00 | NA | 174 |
| Motor Carrier Research | 7,399 | 8,541 | NA | 9.00 | 9.00 | NA | 152 |
| ITS Research and Development | 28,605 | 45,500 | NA | NA | NA | NA | 122 |
| ITS Adv. Vehicle Control and Info. Systems (AVCIS) | 22,000 | 26,000 | NA | NA | NA | NA | 129 |
| ITS Architecture and Standards | 5,000 | 13,000 | NA | NA | NA | NA | 136 |
| ITS Operational Tests | 54,992 | 24,500 | NA | NA | NA | NA | 131 |
| ITS Evaluation/Program Assessment | 2,000 | 9,000 | NA | NA | NA | NA | 134 |
| ITS Mainstreaming | 0 | 22,000 | NA | NA | NA | NA | 138 |
| ITS Deployment Incentive Program | 0 | 100,000 | NA | NA | NA | NA | 143 |
| ITS Program Support | 7,761 | 10,000 | NA | NA | NA | NA | 142 |
| ISTEA Section 6058 Funds | 113,000 | 0 | NA | NA | NA | NA | 143 |
| Technology Assessment and Deployment | 13,811 | 14,800 | NA | 27.00 | 27.00 | NA | 94 |
| National Advanced Driver Simulator | 0 | 12,250 | NA | NA | NA | NA | 176 |
| Local Technical Assistance Program | 8,827 | 12,000 | NA | 2.00 | 2.00 | NA | 95 |
| Fairbank Building Renovation | 500 | 2,000 | NA | 0.20 | 0.25 | NA | 204 |
| National Highway Institute | 4,269 | 8,000 | NA | 13.00 | 13.00 | NA | 96 |
| University Transportation Centers Program | 6,000 | 6,000 | NA | NA | NA | NA | 193 |
| University Research Institutes | 6,250 | 6,000 | NA | NA | NA | NA | 194 |
| State Planning & Research Program | 80,367 | 80,367 | NA | NA | NA | NA | 199 |
| Implementation of the Strategic Highway Research Program | 20,000 | 0 | NA | 16.00 | | NA | 98 |
| Technology Implementation Partnership Program | 0 | 11,000 | NA | 0.00 | NA | NA | 100 |
| Long-Term Pavement Performance | 6,000 | 15,000 | NA | 0.00 | | NA | 101 |
| Advanced Research | 2 000 | 10,000 | NA | 0.00 | | NA NA | 102 |
| Dwight David Eisenhower Transportation Fellowship Program | 2,000 | 2,000 | NA | 1.00 | 1.00 | NA | 198 |
| Applied Research & Technology | 41,000 | 0 | NA | NA 0.00 | NA NA | NA | 104 |
| National Technology Deployment Initiatives | 2 000 | 56,000 | NA | 0.00 | NA 0.00 | NA NA | 105 |
| Seismic Research Program | 2,000 | 0 | NA | 2.00 | 0.00 | NA | 108 |
| Timber Bridge Research Program | 1,000 | 0 | NA | 1.00 | 0.00 | NA | 109 |
| GPS Support | 0 | 2,100 | NA | 0.00 | NA NA | NA | 144 |
| Research & Technology Technical Support | 0 | 10,000 | NA | 0.00 | NA | NA | 109 |
| Administration | 10,026 | 10,327 | <u>NA</u> | NA. | <u>NA</u> | <u>NA</u> | 203 |
| SubtotalFHWA | 496,532 | 581,747 | | | | | |

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| Program Title | FY 1997 | FY 1998 | FY 1999 | FY 1997 | FY 1998 | FY 1999 | Page |
| National Highway Traffic Safety Administration (NHTSA) | | | | | | | |
| Safety Systems | 6.488 | 8,338 | NA | 16.01 | 16.02 | NA | 153 |
| Biomechanics | 7,437 | 10,587 | NA NA | 8.54 | | NA NA | 154 |
| Partnership for a New Generation of Vehicles | 2,496 | 2,496 | NA | 0.00 | | | 155 |
| Crash AvoidanceDriver/Vehicle Performance | 1,000 | 1,000 | NA | 2.00 | | | 144 |
| Heavy Vehicles | 595 | 595 | NA | 7.47 | 7.48 | NA NA | 155 |
| Fatal Analysis Reporting System (FARS) | 5,242 | 5,242 | NA | 6.40 | | NA | 177 |
| National Automotive Sampling System (NASS) | 9,658 | 9,658 | NA | 10.67 | 10.68 | NA NA | 177 |
| Data Analysis Program | 1.635 | 1.935 | NA | 13.88 | 12.82 | NA NA | 178 |
| State Data Program | 3,041 | 3,041 | NA | 9.61 | 9.61 | NA | 178 |
| Occupant Protection Survey | 300 | 300 | NA | 1.00 | | NA NA | 179 |
| Special Crash Investigations | 331 | 1.031 | NA NA | 1.07 | 1.07 | NA NA | 179 |
| Technology Transfer Programs | 40 | 40 | NA | 1.00 | | | 180 |
| Vehicle Research and Test Center | 799 | 799 | NA | 0.20 | | | 204 |
| Highway Safety Research | 5,123 | 5,123 | NA | 17.15 | 18.15 | NA | 165 |
| Administration | 12,600 | 13,082 | NA | NA NA | NA | NA | 203 |
| SubtotalNHTSA | 56,785 | 63,267 | 1177 | 1071 | 1471 | 1177 | 203 |
| SubtotutMIII SA | 30,783 | 03,207 | | | | | |
| Federal Rail Administration (FRA) | | | | | | | |
| Equipment, Operations & Hazardous Materials Research | 5,545 | 5,509 | NA | 5.00 | 5.00 | NA | 156 |
| Track, Structures, and Train Control | 7,346 | 7,746 | NA | 3.00 | NA | NA | 110 |
| Safety of High-Speed Ground Transportation | 4,600 | 5,250 | NA | 1.00 | 1.00 | NA | 157 |
| R&D Facilities | 420 | 850 | NA | 1.00 | 1.00 | NA | 205 |
| Administration | 2,181 | 2,283 | NA | 2.00 | 2.00 | NA | 203 |
| Next-Generation High-Speed Rail | <u>26,176</u> | 19,595 | <u>NA</u> | 4.00 | 4.00 | <u>NA</u> | 158 |
| SubtotalFRA | 46,268 | 41,233 | | | | | |
| Maritime Administration (MARAD) | | | | | | | |
| Industry Competitiveness | 0 | 0 | NA | NA | NA | NA | 145 |
| Intermodal Development | 0 | 0 | NA NA | NA NA | NA NA | NA NA | 111 |
| Maritime Safety | 0 | 0 | NA NA | NA NA | NA NA | NA NA | 167 |
| Shipyard Revitalization | 0 | 0 | NA NA | NA NA | NA NA | NA NA | 158 |
| National Security | 0 | 0 | NA NA | NA NA | NA NA | NA NA | 180 |
| Administration | 0 | 0 | NA NA | NA NA | NA NA | NA NA | 203 |
| SubtotalMARAD | 0 | 0 | IVA | <u>INA</u> | INA | IVA | 203 |
| SubidiaiMAKAD | | 0 | | | | | |
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| | | Funding | | | FTE | | |
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| FY 199' | 7 | FY 1998 | FY 1999 | FY 1997 | FY 1998 | FY 1999 | Page |
| | | | | | | | |
| 6 | ,500 | 11,000 | NA | NA | NA | NA | 160 |
| 9. | ,500 | 8,000 | NA | NA | NA | NA | 160 |
| | 200 | 800 | NA | NA | NA | NA | 112 |
| 1. | ,500 | 700 | NA | NA | NA | NA | 181 |
| 2 | ,500 | 2,500 | NA | NA | NA | NA | 181 |
| | 300 | 1,000 | NA | NA | NA | NA | 182 |
| | 700 | 1,200 | NA | NA | NA | NA | 182 |
| | 650 | 1,100 | NA | NA | NA | NA | 168 |
| | 150 | 500 | NA | NA | NA | NA | 183 |
| 8 | ,250 | 8,250 | NA | NA | NA | NA | 197 |
| 3. | ,000 | 3,000 | NA | NA | NA | NA | 183 |
| 6 | ,000 | 6,000 | NA | NA | NA | NA | 193 |
| 4 | ,500 | 4,964 | NA | NA | NA | NA | 184 |
| 2 | ,223 | 2,270 | NA | NA | NA | NA | 203 |
| 45 | ,973 | 51,284 | | | | | |
| | | | | | | | |
| 1. | ,161 | 1,167 | NA | 2.20 | 2.20 | NA | 146 |
| 1. | ,644 | 1,648 | NA | NA | NA | NA | 113 |
| 6 | ,580 | 5,296 | NA | NA | NA | NA | 184 |
| | <u>68</u> | 69 | NA | NA | NA | NA | 147 |
| 9 | ,453 | 8,180 | | | | | |
| | | | | | | | |
| 496. | 532 | 581,747 | NA | NA | NA | NA | |
| 56. | 785 | 63,267 | NA | NA | NA | NA | |
| 46. | 268 | 41,233 | NA | NA | NA | NA | |
| | 0 | 0 | NA | NA | NA | NA | |
| 45 | 973 | 51,284 | NA | NA | NA | NA | |
| 9 | ,453 | 8,180 | NA | NA | NA | NA | |
| 655. | 011 | 745,711 | | | | | |
| | 8. 8. 3. 6. 4. 4. 5. 9. 496. 56, 46, 45, 9. | 1,500 2,500 300 700 650 150 8,250 3,000 6,000 4,500 2,223 45,973 1,161 1,644 6,580 68 9,453 496,532 56,785 46,268 | FY 1997 FY 1998 6,500 11,000 9,500 8,000 200 800 1,500 700 2,500 2,500 300 1,000 700 1,200 650 1,100 150 500 8,250 8,250 3,000 3,000 6,000 6,000 4,500 4,964 2,223 2,270 45,973 51,284 1,161 1,167 1,644 1,648 6,580 5,296 68 69 9,453 8,180 496,532 581,747 56,785 63,267 46,268 41,233 0 0 45,973 51,284 9,453 8,180 | FY 1997 FY 1998 FY 1999 6,500 | FY 1997 FY 1998 FY 1999 FY 1997 6,500 11,000 NA NA 9,500 8,000 NA NA 200 800 NA NA 1,500 700 NA NA 2,500 2,500 NA NA 300 1,000 NA NA 700 1,200 NA NA 650 1,100 NA NA 150 500 NA NA 8,250 8,250 NA NA 8,250 8,250 NA NA 4,500 4,964 NA NA 44,500 4,964 NA NA 45,973 51,284 NA NA 1,644 1,648 NA NA 68 69 NA NA 9,453 8,180 NA NA 496,532 581,747 NA NA 46,268 41,2 | FY 1997 FY 1998 FY 1999 FY 1997 FY 1998 6,500 11,000 NA NA NA NA 9,500 8,000 NA NA NA NA 200 800 NA NA NA NA 1,500 700 NA NA NA NA 2,500 2,500 NA NA NA NA 300 1,000 NA NA NA NA 700 1,200 NA NA NA NA 150 500 NA NA NA NA 8,250 8,250 NA NA NA NA 3,000 3,000 NA NA NA NA 4,500 4,964 NA NA NA NA 45,973 51,284 NA NA NA NA 46,580 5,296 NA NA NA NA 496, | FY 1997 FY 1998 FY 1999 FY 1997 FY 1998 FY 1999 6,500 11,000 NA NA NA NA NA 9,500 8,000 NA NA NA NA NA 1,500 700 NA NA NA NA NA 2,500 2,500 NA NA NA NA NA 300 1,000 NA NA NA NA NA 700 1,200 NA NA NA NA NA 150 500 NA NA NA NA NA 150 4964 NA N |

APPENDIX B. PRELIMINARY PERFORMANCE MEASURES FOR DOT R&D PROGRAMS

| R&D Program | FY 1998 Performance Measures |
|---|--|
| ITS R&D Traffic Management and Control | vehicle throughput, travel time |
| ITS R&D Crash Avoidance Research | percentage of collisions, fatalities, serious injuries, and property losses eliminated by advanced crash avoidance technologies |
| ITS R&D Enabling Research | throughput, customer acceptance, cost; reduction in fatalities, injuries, crashes, property damage, wrong turns, and miles per trip |
| ITS R&D Rural Research | reduction in fatalities, injuries, and crashes; increased accessibility to services, use of system, traveler comfort; reduced fleet operating costs for the public sector; reduced transportation costs for the private sector |
| ITS R&D Other R&D | safety and mobility as it relates to efficiency |
| ITS R&D Advanced Transit Management Research | reduced transit travel times, reduced accidents and fatalities, reduced costs, increased operating efficiencies, increased customer convenience, increased overall transit usage, decreased congestion |
| ITS R&D Commercial Vehicle Operations | reduction in crashes; reduction in fatalities; increases in people or goods moved per unit of time; reductions in travel time; improvements in customer satisfaction; savings in cost to public and private sectors |
| ITS R&D Positive Train Control Systems | reduction in the number of accidents at highway-rail intersections (HRIs), in fatalities and severity of injuries to motor vehicle occupants in accidents at HRIs, in delay and congestion associated with railroad traffic blocking HRIs; development and deployment of technologies for test in rail corridors, and determination of suitability for nationwide deployment |
| ITS Advanced Vehicle Control and Information Systems | reduction in fatalities, crashes, and injuries; increase in vehicles/unit tim; reduction in travel time; reduction in transportation costs for business; reduction in fleet operating costs for public sector |

| ITS Operational Tests ATMS/ATIS | mobility and productivity measures of customer satisfaction and cost |
|--|--|
| ITS Operational Tests APTS | reduced capital costs resulting from multiple operators sharing the procurement and maintenance of capital equipment; increased passenger convenience, transit usage, and customer acceptance resulting from the development of a proximity card integrated with commercial/retail stored-value card |
| ITS Operational Tests Commercial Vehicle Operations | reduction in crashes and travel time |
| ITS Operational Tests Advanced Vehicle Control and Safety Systems | measurement of the effectiveness of individual crash avoidance countermeasures on a fleet of vehicles |
| ITS Operational Tests Rural | reduction in fatalities, injuries, and crashes; increased accessibility to services; use of system; traveler comfort; reduced fleet operating costs for public sector; reduced transportation costs for business |
| ITS Evaluation/Program Assessment ITS Field Evaluations | reduction in travel time, crashes, and fatalities; increases in throughput; improvements in customer satisfaction; savings in costs to public and private sectors; measurement of energy and emissions impacts of ITS |
| ITS Evaluation/Program Assessment ITS Program Assessment | reduction in travel time, crashes, and fatalities; increases in throughput; improvements in customer satisfaction; savings in costs to public and private sectors; measurement of energy and emissions impacts of ITS; assessment of ITS acquisition and life-cycle costs; number of deployed intelligent transportation infrastructure systems that integrate the capabilities of appropriate elements to achieve maximum traffic management efficiency |
| ITS Architecture and Standards Architecture | percentage of intelligent transportation infrastructure deployments based on the architecture, number of standards developed for key interfaces identified by the architecture |
| ITS Architecture and Standards Standards | approximately 10 draft standards will be developed and available for use by the ITS community |
| ITS Mainstreaming Technical Assistance | presentation of over 40 seminars and workshops; as many as 25 different best practice publications |

| ITS Mainstreaming Planning/Policy | state and local planning initiatives in 40 metropolitan areas; provision of technical, best practices, and guidance materials to over 400 state and local planning organizations |
|---|--|
| ITS Mainstreaming Training | training of over 4,000 public sector officials and transportation professionals; ITS technician training and certification program available to over 500 technicians; over 100 university scholarships in effect |
| ITS Mainstreaming Awareness and Advocacy | ITS technologies and systems showcased at major events and annual meetings of professional associations and stakeholder organizations; development and implementation of a traveler information awareness campaign |
| ITS Program Support | successful and effective management of the ITS program |
| Safety Systems (NHTSA) | completion of 75% of planned research tasks/timely dissemination of research results; on-time responses to short-term rulemaking needs; meet customer needs for timely dissemination of research results as measured by end of year assessment of contractor reports and staff technical papers published and staff presentations; degree to which projects support agency crashworthiness rulemaking activities |
| National Transportation Biomechanics Research Center (NHTSA) | completion of all planned project tasks in 75% of the biomechanics research projects approved and ongoing in FY 1998; provision of on-time responses to short-term rulemaking needs; meet customer needs for timely dissemination of research results as measured by end of year assessment of contractor reports and staff technical papers published and staff presentations |
| Crash Avoidance Research Driver/Vehicle Performance (NHTSA) | number of rollover crashes prevented through improved understanding of factors that affect ABS effectiveness and on-the-road rollover phenomena |
| Crash Avoidance Research Heavy Vehicles (NHTSA) | reduction in the number of heavy truck crashes and fatalities |
| Fatal Analysis Reporting System (NHTSA) | creation of the 1997 FARS electronic data file on over 42,000 fatalities by July 1998 |

| National Automotive Sampling System (NHTSA) | creation of annual electronic data files for NASS by August 1998 for the Crashworthiness Data System (CDS) and September 1998 for the General Estimates System (GES); increase the number of NASS CDS cases by 40% by 1999 |
|--|--|
| Data Analysis Program (NHTSA) | response expected to more than 100 statistical analyses, more than 2,500 information retrievals for internal customers, and more than 5,000 information retrievals for external customers |
| State Data Program (NHTSA) | provision of up to 15 quality state databases |
| Special Crash Investigations (NHTSA) | creation of an electronic file off all special crash investigations |
| Occupant Protection Survey (NHTSA) | a national survey to measure occupant restraint use |
| Partnership for a New Generation of Vehicles (NHTSA) | completion of all planned project tasks in 75% of the research projects approved and ongoing in FY 1998; meet customer needs for timely dissemination of research results as measured by end of year assessment of contractor reports and staff technical papers published and staff presentations; degree to which these projects support the PNGV program |
| Vehicle Research and Test Center (NHTSA) | earlier determinations of recall requirements, with resultant reduction in crashes and injuries caused by defective components or vehicles; development of a Child Restraint System Database; reduction of out-of-position child fatalities through initial deployment of "smart" airbag systems; timely direction of NHTSA inventory of anthropomorphic test dummies toward tests supporting compliance testing, rulemaking initiatives, R&D projects, and advanced dummy development |
| National Advanced Driving Simulator (NHTSA) | an improved understanding of the nature of driver-related causes of crashes; assistance in the development of applicable technology countermeasures |
| University Transportation Centers (FHWA/FTA) | project-level reviews using third party experts to assess the quality of individual projects and courses as they are developed; center-level reviews using teams of departmental managers to evaluate the performance of individual centers and institutes in all areas of responsibility; program-level reviews by departmental program managers and policy officials to assess the relative value of the program as a whole |

| University Research Institutes (FHWA) | project-level reviews using third party experts to assess the quality of individual projects and courses as they are developed; center-level reviews using teams of departmental managers to evaluate the performance of individual centers and institutes in all areas of responsibility; program-level reviews by departmental program managers and policy officials to assess the relative value of the program as a whole |
|---------------------------------------|---|
| Hazardous Materials Research (RSPA) | completion of 75% of planned project tasks/timely dissemination of research results, on time response to short-term rulemaking, international standards development and significant safety problem needs; meet customer needs for timely dissemination of research results as measured by end of year assessment of contractor reports and staff technical papers and staff presentations; degree to which projects support agency rulemaking, international standards development and program activities |
| Bureau of Transportation Statistics | focus groups and interviews to develop a better understanding of how transportation decisions are made, and how BTS data and analysis have played a role, and might in the future; customer surveys; "hits" or downloads, along with IP address type analysis provides initial data for BTS internet analysis; automated search of citations and references to BTS data will provide initial impressions from which to develop surveyable populations for BTS analysis publications which have a broad distribution and broad policy audience |

APPENDIX C. LIST OF ACRONYMS

A.

AAA = American Automobile Association

AASHTO = American Association of State Highway and Transportation Officials

ABS = Antilock Braking System

ADA = Americans with Disabilities Act of 1990

AHS = Automated Highway System

ATMS = Advanced Traffic Management System

ATP = Advanced Technology Program

AVCIS = Advanced Vehicle Control and Information Systems

AVI = Automatic Vehicle Identification AVL = Automatic Vehicle Location

В.

BART = Bay Area Rapid Transit

BTS = Bureau of Transportation Statistics

C.

CAD = Computer-Aided Design

CAA = Clean Air Act

CAAA = Clean Air Act Amendments of 1990

CADRE = Critical Automated Data Reporting Elements
CALTRANS = California Department of Transportation

CBD = Commerce Business Daily

CDROM = Compact Disc-Read Only Memory CDS = Crashworthiness Data System

CERF = Civil Engineering Research Foundation

CFR = Code of Federal Regulations CMS = Changeable Message Sign

CTPP = Census Transportation Planning Package

CTRD = Coordinating Committee on Transportation Research and Development

CVO = Commercial Vehicle Operations

D.

DARPA = Defense Advanced Research Project Agency

DOC = Department of Commerce DOD = Department of Defense DOE = Department of Energy DOJ = Department of Justice

DOT = Department of Transportation

E.

ECDIS = Electronic Chart Display Information System

EPA = Environmental Protection Agency

ETMM = Electronic Toll and Traffic Management

F.

FAA = Federal Aviation Administration FAR = Federal Acquisition Regulation FARS = Fatal Analysis Reporting System

FEMA = Federal Emergency Management Agency

FHWA = Federal Highway Administration FRA = Federal Railroad Administration FRP = Federal Radionavigation Plan FTA = Federal Transit Administration

FTE = Full-time equivalent

FY = Fiscal year

G.

GAO = General Accounting Office GES = General Estimates System

GIS = Geographic Information Systems

GPRA = Government Performance and Results Act

GPS = Global Positioning System

H.

HHS = Department of Health and Human Services HPMS = Highway Performance Monitoring System

HSGT = High Speed Ground Transportation

HSR = High Speed Rail

HSRC = Highway Seismic Research Council

I.

IDEA = Innovations Deserving Exploratory Analysis

IITF = Information Infrastructure Task Force IMO = International Maritime Organization ISTEA = Intermodal Surface Transportation Efficiency Act

ITN = Independent Transportation Network

ITS = Intelligent Transportation System (formerly IVHS)

IVHS = Intelligent Vehicle Highway System

J.

JPO = Joint Program Office

L.

LCV = Longer Combination Vehicles

LTPP = Long-Term Pavement Performance

M.

MARAD = Maritime Administration MDP = Moving Deformable Barriers

MPO = Metropolitan Planning Organization

N.

NAC = National Automotive Center

NADS = National Advanced Driving Simulator

NASA = National Aeronautics and Space Administration

NASS = National Automotive Sampling System NAFTA = North American Free Trade Agreement

NCEER = National Center for Earthquake Engineering Research NCHRP = National Cooperative Highway Research Program

NDE = Non-Destructive Engineering NHS = National Highway System

NHTSA = National Highway Traffic Safety Administration

NHS = National Highway System

NII = National Information Infrastructure

NIST = National Institute of Standards and Technology NOAA = National Oceanic and Atmospheric Administration

NSC = National Security Council NSF = National Science Foundations

NSTC = National Science and Technology Council

NWS = National Weather Service, Department of Commerce

0.

OMB = Office of Management and Budget

OMC = Office of Motor Carriers

OST = Office of the Secretary of Transportation OSTP = Office of Science and Technology Policy

P.

PAR = Police Accident Report

PRS = Performance-Related Specifications

PNGV = Partnership for a New Generation of Vehicles

R.

R&D = Research and Development
R&T = Research and Technology
RFI = Request for Information

ROW = Right-of-Way

RSPA = Research and Special Programs Administration

S.

SAE = Society of Automotive Engineers
SBA = Small Business Administration
SBIR = Small Business Innovation Research

SHRP = Strategic Highway Research Program

SP&R = State Planning and Research

T.

TCRP = Transit Cooperative Research Program

TMS = Traffic Management System
TPR = Transit Planning and Research
TRB = Transportation Research Board
TRP = Technology Reinvestment Project

TTC = Transportation Test Center

U.

USC = United States Code

USCG = United States Coast Guard USGS = United States Geological Survey

UTC = University Transportation Centers

V.

VMT = Vehicle Miles Travelled VME = Vehicle Motion Environment

VNTSC = Volpe National Transportation Systems Center

VTS = Vessel Traffic System

W.

WWW = World Wide Web